

CLAIMS

1. Method for manufacturing a crystalline powder of a composite lithium and vanadium oxide with formula  $\text{Li}_{1+x}\text{V}_3\text{O}_8$ , where x is between 0 and 0.2, comprising:

- 5           - formation of an aqueous suspension starting from an  $\text{NH}_4\text{VO}_3$  paste and monohydrated lithia powder,
- continuous dehydration of this suspension in a hot gas current at a temperature of between 200 and 600°C to form a dry powder of a precursor with a size grading of between 10 and 100  $\mu\text{m}$ ,
- 10          - calcination of this precursor at a temperature of between 380 and 580°C to form a crystalline powder of  $\text{Li}_{1+x}\text{V}_3\text{O}_8$ .

2. Method according to claim 1, characterised in that the suspension is stirred before being injected into the hot gas current.

3. Method according to either of claims 1 and 2, characterised in that the size grading of the final product is between 10 and 100  $\mu\text{m}$ .

- 15          4. Method according to any of claims 1 to 3, characterised in that the  $\text{NH}_4\text{VO}_3$  paste is a high purity paste obtained by making  $\text{VOCl}_3$  react with  $\text{NH}_4\text{OH}$ .